

Data Path : \\74.0.250.170\svoasrv\HPCHEM1\BNA F\Data\BF081716\
 Data File : BF089781.D
 Acq On : 17 Aug 2016 23:26
 Operator : UM/SJ
 Sample : H4490-12
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 670-UNDERCLIFF-6

Quant Time: Aug 18 08:34:53 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 16 19:45:04 2016
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

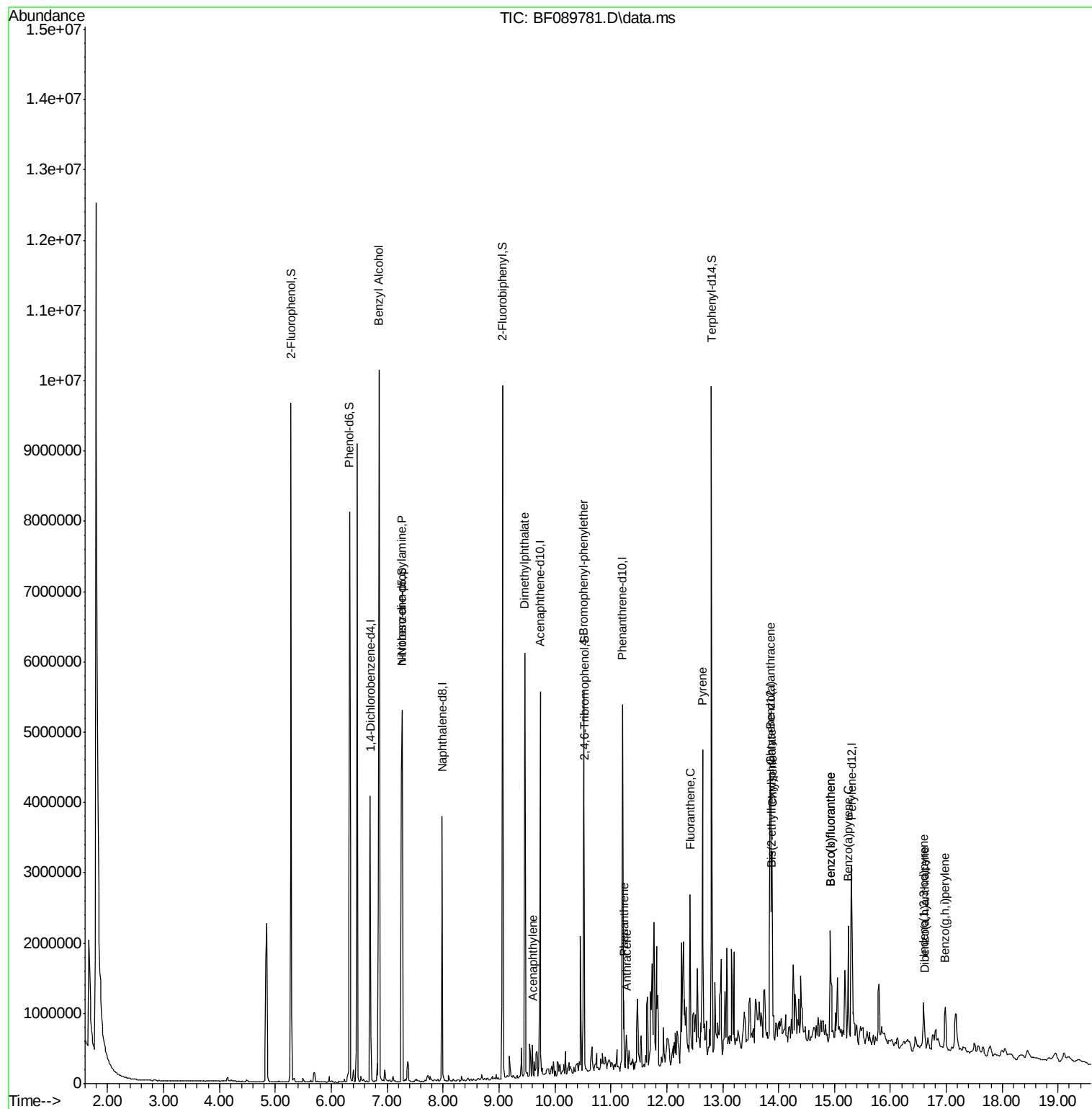
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.696	152	555128	20.00	ng	0.00	
21) Naphthalene-d8	7.988	136	2130593	20.00	ng	0.00	
38) Acenaphthene-d10	9.736	164	1025030	20.00	ng	0.00	
63) Phenanthrene-d10	11.211	188	1706076	20.00	ng	0.00	
75) Chrysene-d12	13.862	240	1207456	20.00	ng	-0.03	
86) Perylene-d12	15.303	264	1177551	20.00	ng	-0.10	
System Monitoring Compounds							
5) 2-Fluorophenol	5.279	112	2883428	86.66	ng	0.00	
7) Phenol-d6	6.330	99	3598179	85.02	ng	0.00	
23) Nitrobenzene-d5	7.267	82	2458577	70.46	ng	0.00	
41) 2,4,6-Tribromophenol	10.525	330	937156	94.51	ng	0.00	
44) 2-Fluorobiphenyl	9.062	172	4016646	62.88	ng	-0.01	
78) Terphenyl-d14	12.799	244	2849399	70.50	ng	-0.01	
Target Compounds							Qvalue
15) Benzyl Alcohol	6.856	79	57739	2.04	ng	#	47
19) n-Nitroso-di-n-propyla...	7.267	70	326981	11.80	ng	#	71
48) Acenaphthylene	9.599	152	256155	2.62	ng		97
49) Dimethylphthalate	9.462	163	2383854	32.14	ng		99
66) 4-Bromophenyl-phenylether	10.513	248	52161	2.95	ng	#	1
70) Phenanthrene	11.234	178	345369	4.12	ng		99
71) Anthracene	11.279	178	217226	2.48	ng		98
74) Fluoranthene	12.422	202	1250900	14.85	ng		97
77) Pyrene	12.639	202	1747147	22.11	ng		98
80) Benzo(a)anthracene	13.851	228	930768	13.27	ng		94
82) Chrysene	13.885	228	1000818	15.85	ng		97
83) Bis(2-ethylhexyl)phtha...	13.874	149	211227	4.03	ng	#	98
85) Indeno(1,2,3-cd)pyrene	16.594	276	439453	8.17	ng		94
87) Benzo(b)fluoranthene	14.925	252	1137073	15.24	ng		97
88) Benzo(k)fluoranthene	14.925	252	1137073	18.52	ng		98
89) Benzo(a)pyrene	15.245	252	707554	11.49	ng		98
90) Dibenzo(a,h)anthracene	16.606	278	128450	2.65	ng	#	90
91) Benzo(a,h,i)perylene	16.983	276	473211	9.59	ng		95

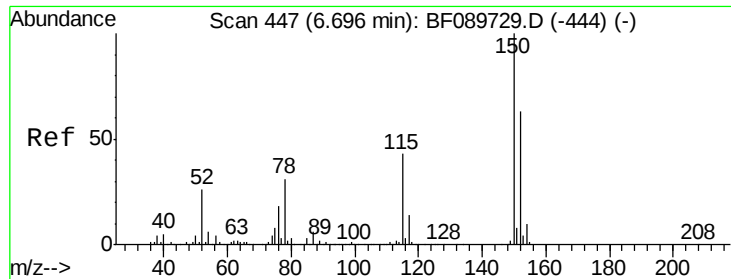
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.696 min Scan# 44

Delta R.T. 0.000 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-6

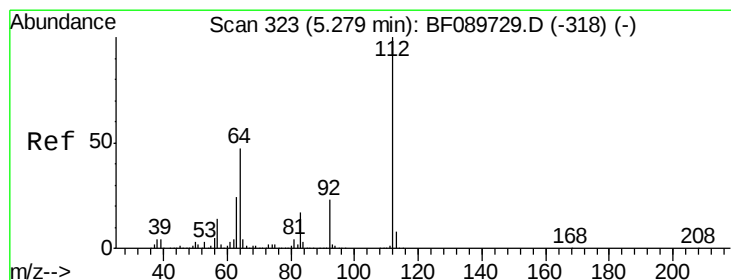
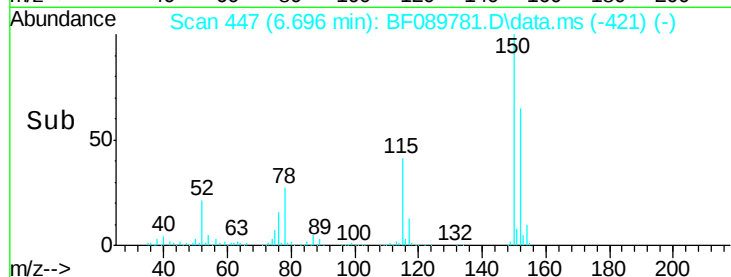
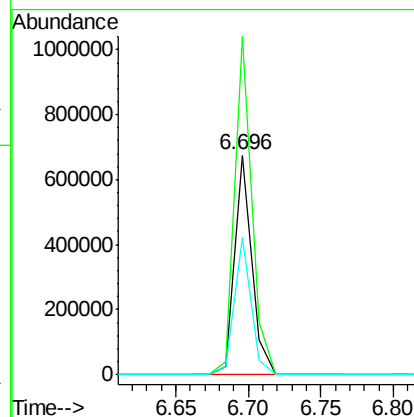
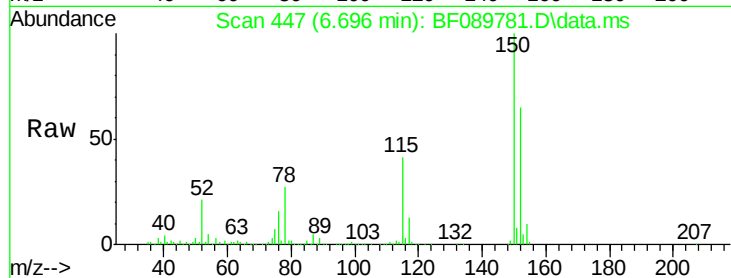
Tot Ion:152 Resp: 555128

Ion Ratio Lower Upper

152 100

150 154.0 125.3 187.9

115 62.4 40.9 61.3#



#5

2-Fluorophenol

Concen: 86.66 ng

RT: 5.279 min Scan# 323

Delta R.T. 0.001 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

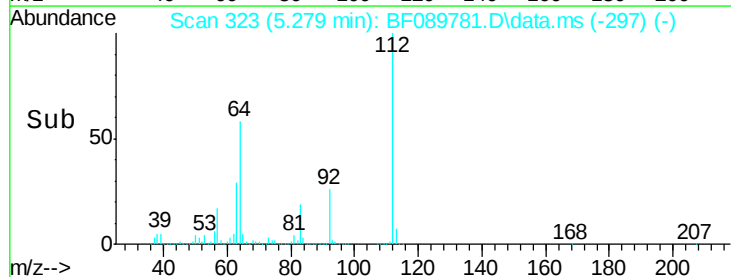
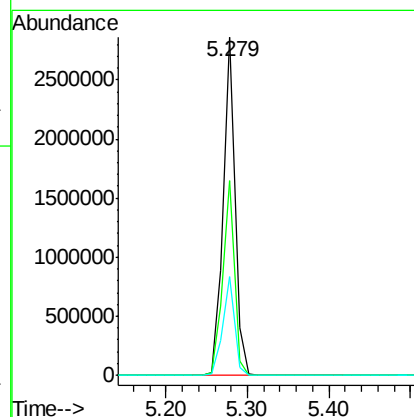
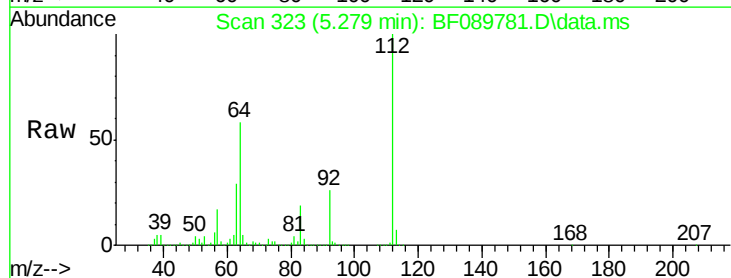
Tgt Ion:112 Resp: 2883428

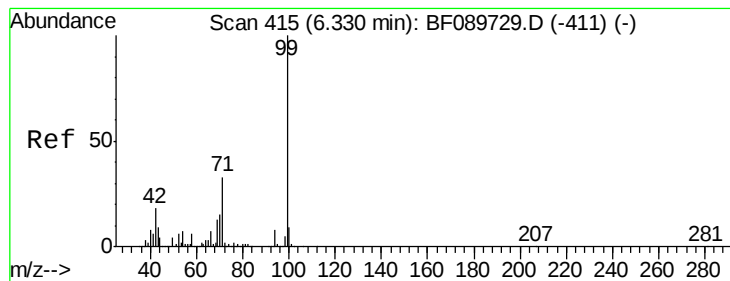
Ion Ratio Lower Upper

112 100

64 57.7 45.0 67.4

63 29.4 23.1 34.7





#7

Phenol-d6

Concen: 85.02 ng

RT: 6.330 min Scan# 41

Delta R.T. 0.000 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-6

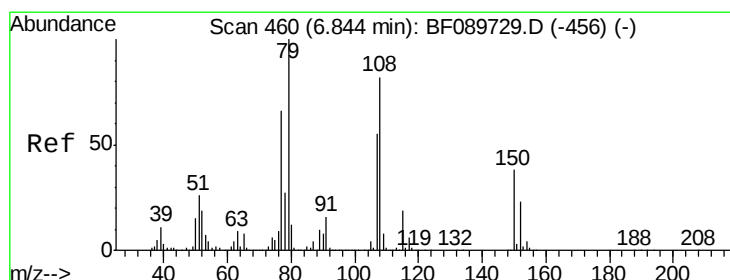
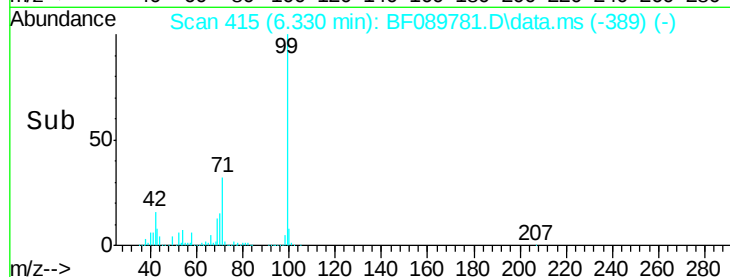
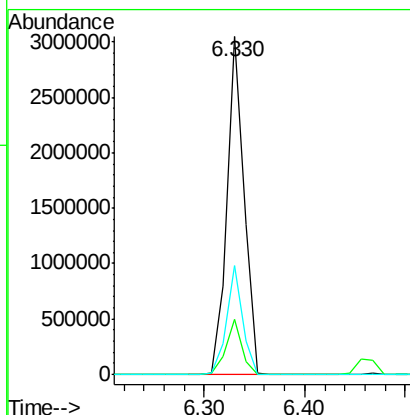
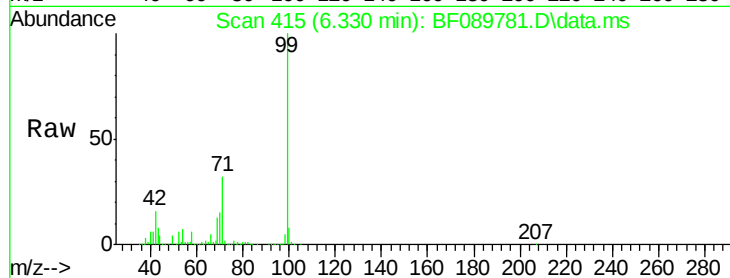
Tot Ion: 99 Resp: 3598179

Ion Ratio Lower Upper

99 100

42 16.4 12.2 18.4

71 32.2 23.8 35.8



#15

Benzyl Alcohol

Concen: 2.04 ng

RT: 6.856 min Scan# 461

Delta R.T. 0.012 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

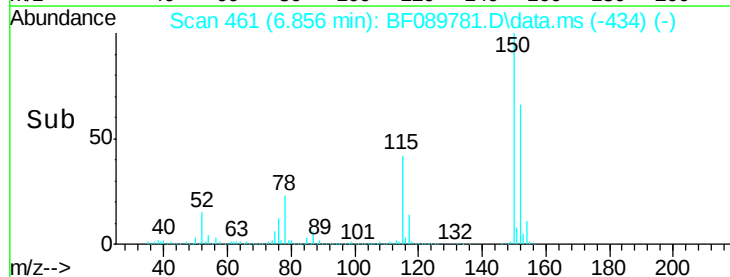
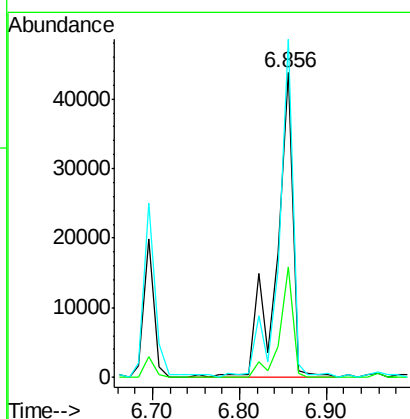
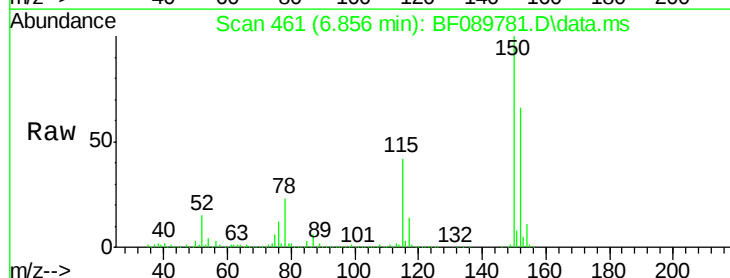
Tgt Ion: 79 Resp: 57739

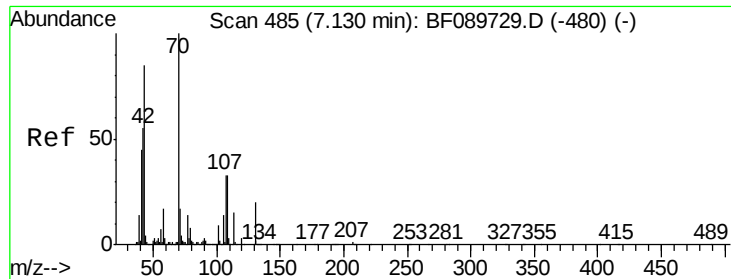
Ion Ratio Lower Upper

79 100

108 36.4 62.5 93.7#

77 111.1 51.5 77.3#

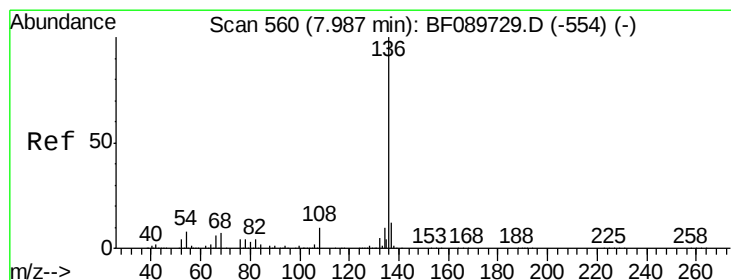
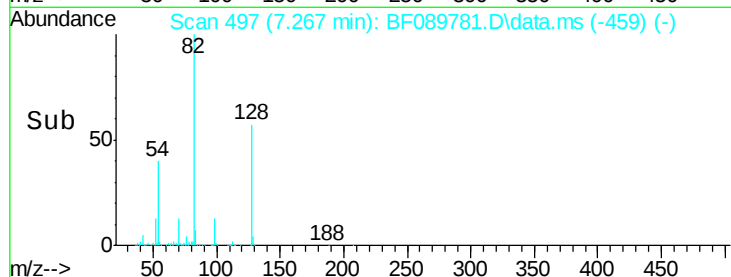
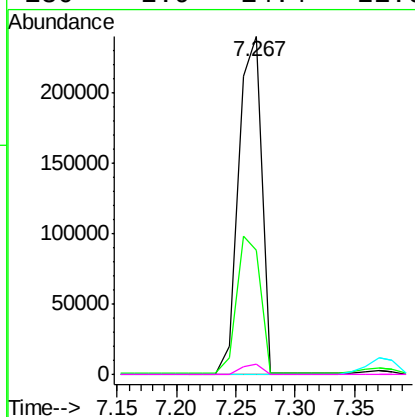
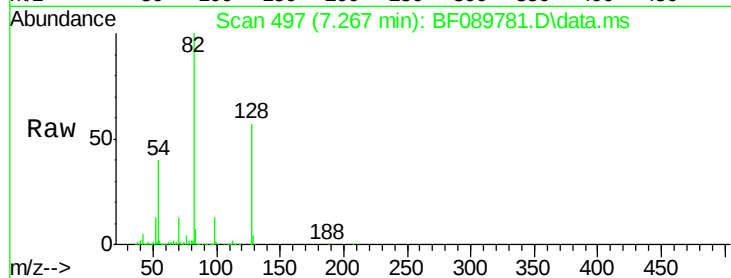




#19
n-Nitroso-di-n-propylamine
Concen: 11.80 ng
RT: 7.267 min Scan# 49
Delta R.T. 0.137 min
Lab File: BF089781.D
Acq: 17 Aug 2016 23:26

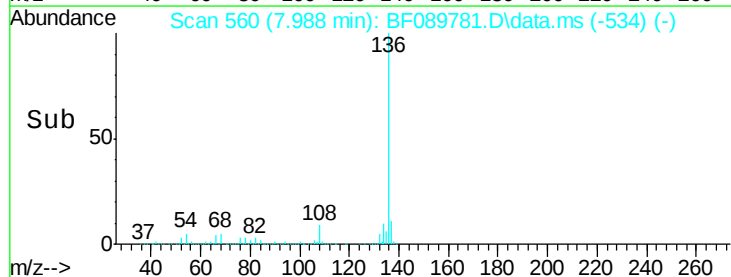
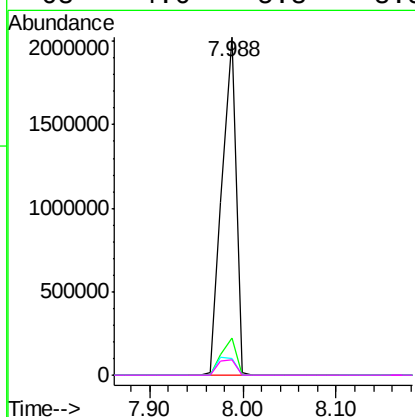
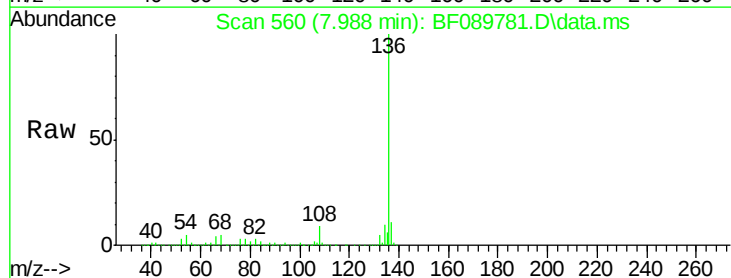
Instrument :
BNA_F
ClientSampleId :
670-UNDERCLIFF-6

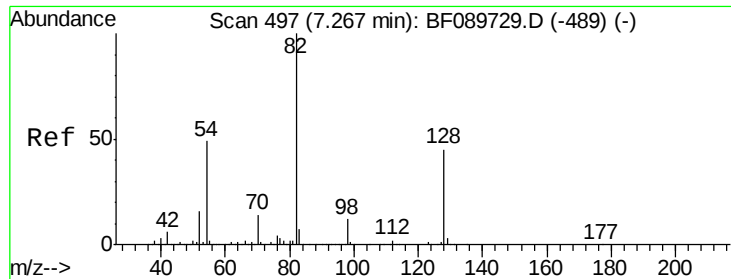
Tot Ion: 70 Resp: 326981
Ion Ratio Lower Upper
70 100
42 36.6 46.3 69.5#
101 0.0 7.0 10.6#
130 2.9 14.4 21.6#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.988 min Scan# 560
Delta R.T. 0.000 min
Lab File: BF089781.D
Acq: 17 Aug 2016 23:26

Tgt Ion: 136 Resp: 2130593
Ion Ratio Lower Upper
136 100
137 11.1 9.2 13.8
54 4.9 7.2 10.8#
68 4.6 5.8 8.8#





#23

Nitrobenzene-d5

Concen: 70.46 ng

RT: 7.267 min Scan# 49

Delta R.T. 0.000 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-6

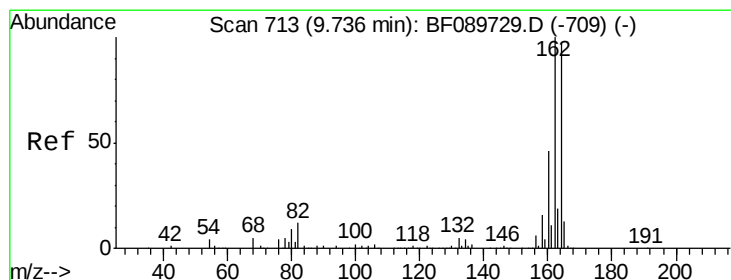
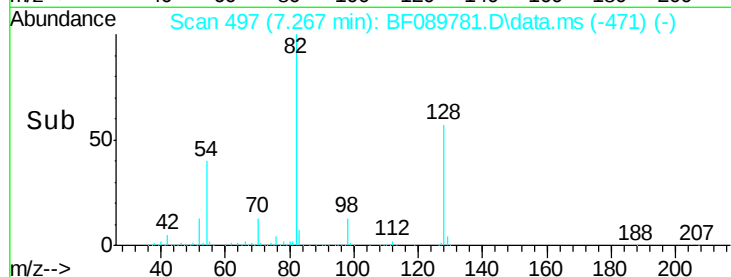
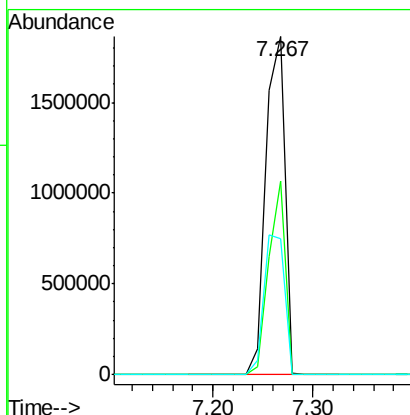
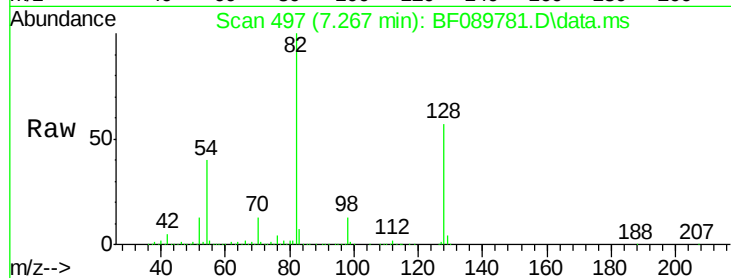
Tot Ion: 82 Resp: 2458577

Ion Ratio Lower Upper

82 100

128 57.0 34.4 51.6#

54 40.1 40.3 60.5#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.736 min Scan# 713

Delta R.T. 0.000 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

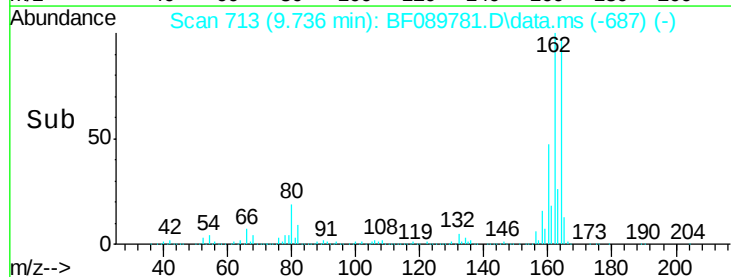
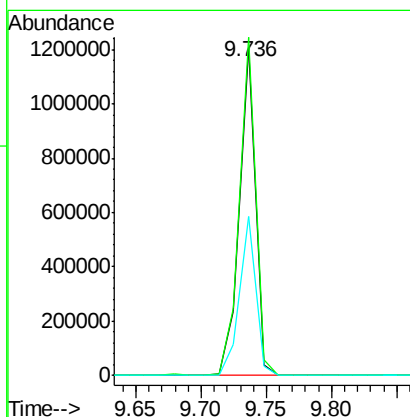
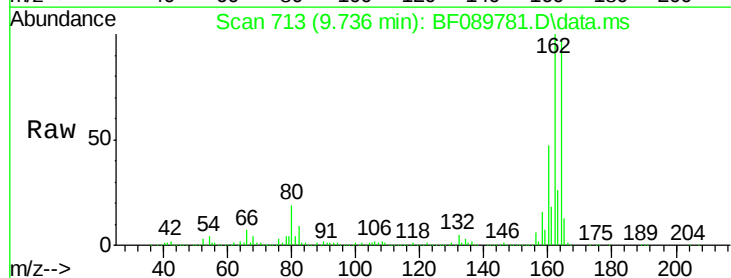
Tgt Ion:164 Resp: 1025030

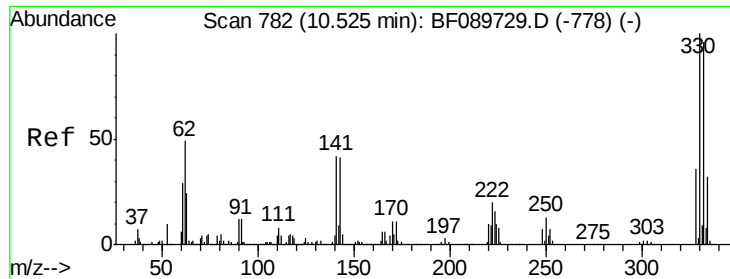
Ion Ratio Lower Upper

164 100

162 103.2 81.4 122.2

160 48.5 37.8 56.6

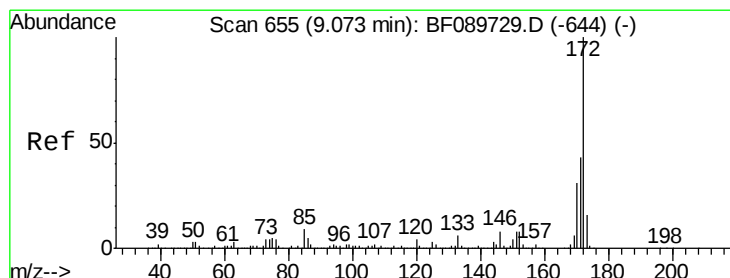
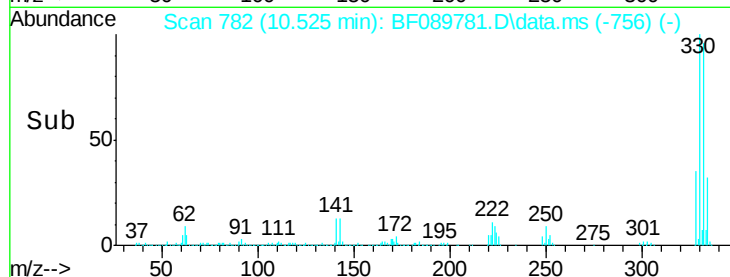
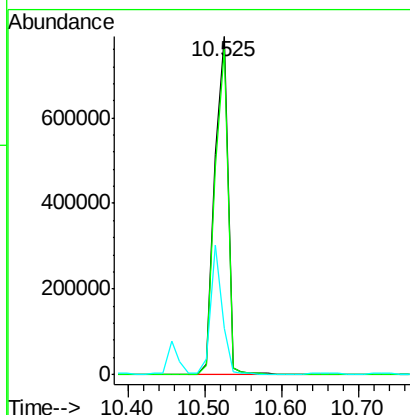
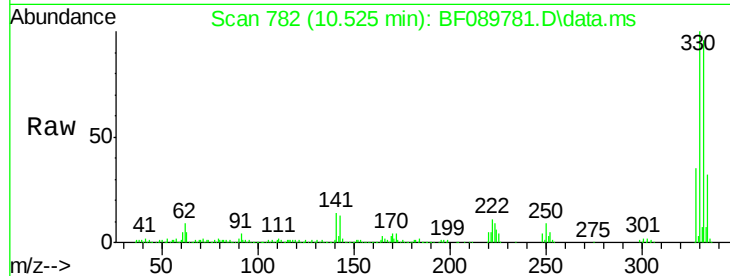




#41
 2,4,6-Tribromophenol
 Concen: 94.51 ng
 RT: 10.525 min Scan# 78
 Delta R.T. 0.000 min
 Lab File: BF089781.D
 Acq: 17 Aug 2016 23:26

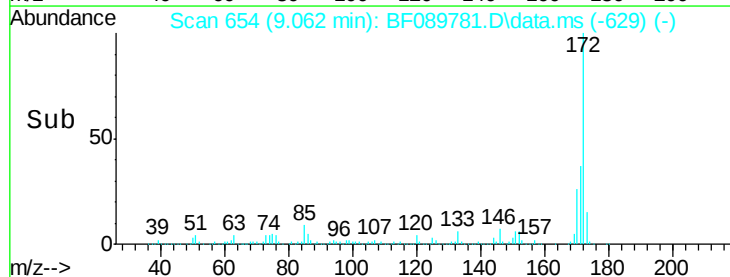
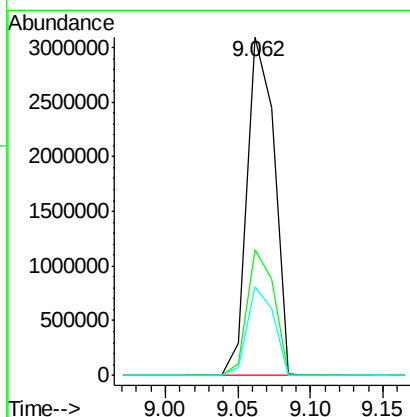
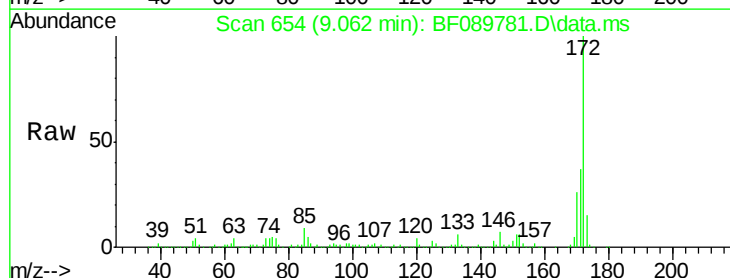
Instrument :
 BNA_F
 ClientSampleId :
 670-UNDERCLIFF-6

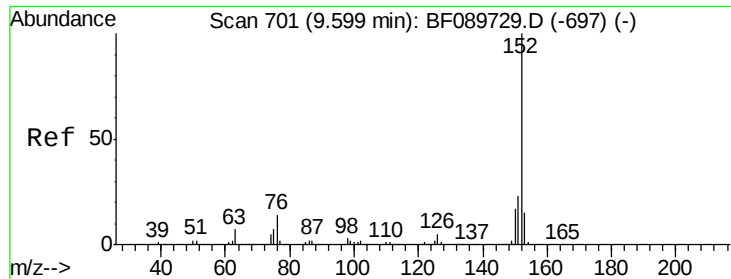
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.7	115.1
141	33.2	30.2	45.2



#44
 2-Fluorobiphenyl
 Concen: 62.88 ng
 RT: 9.062 min Scan# 654
 Delta R.T. -0.011 min
 Lab File: BF089781.D
 Acq: 17 Aug 2016 23:26

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.3	30.5	45.7
170	26.1	20.6	31.0





#48

Acenaphthylene

Concen: 2.62 ng

RT: 9.599 min Scan# 701

Delta R.T. 0.000 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-6

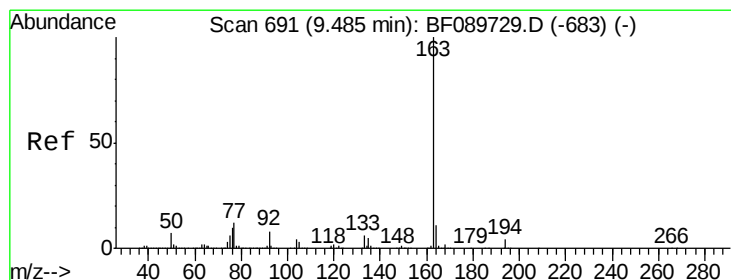
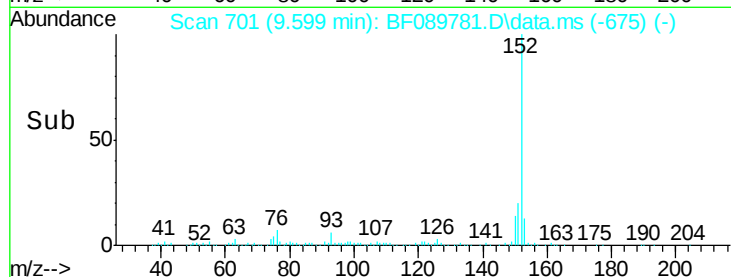
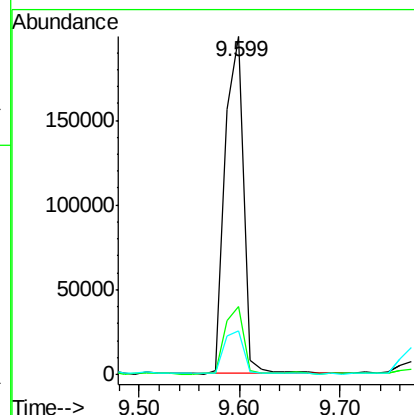
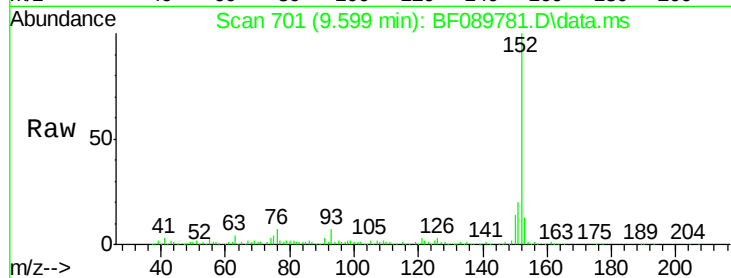
Tot Ion:152 Resp: 256155

Ion Ratio Lower Upper

152 100

151 20.1 17.1 25.7

153 13.0 11.2 16.8



#49

Dimethylphthalate

Concen: 32.14 ng

RT: 9.462 min Scan# 689

Delta R.T. -0.023 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

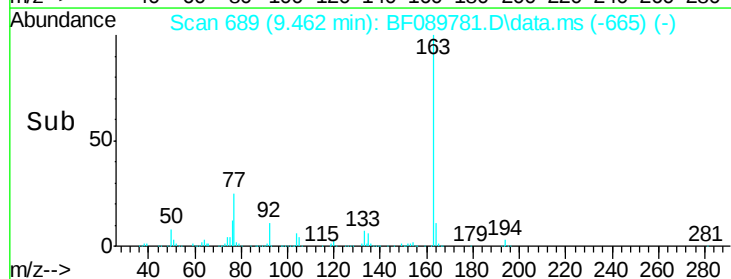
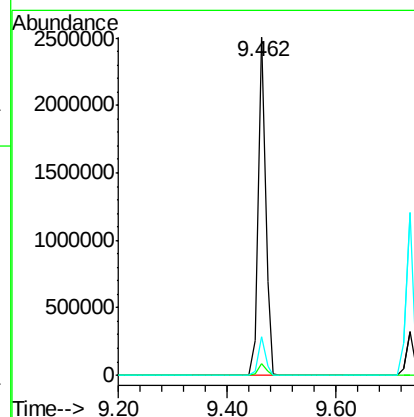
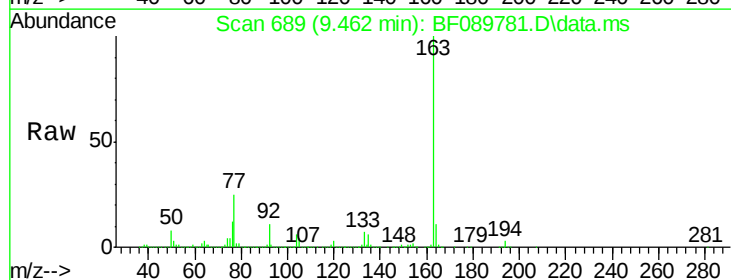
Tgt Ion:163 Resp: 2383854

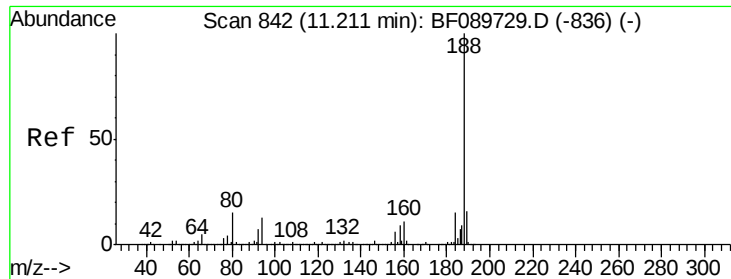
Ion Ratio Lower Upper

163 100

194 3.3 2.6 3.8

164 11.3 8.6 12.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.211 min Scan# 84

Delta R.T. 0.000 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-6

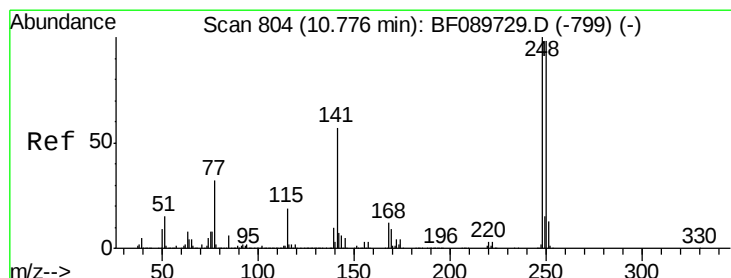
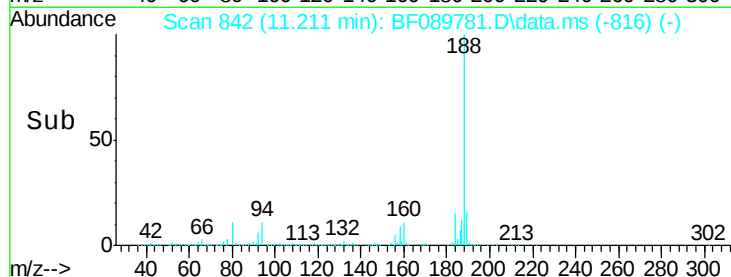
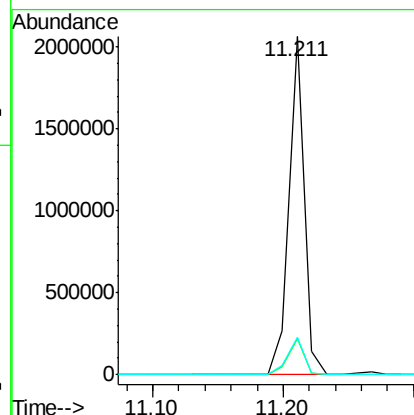
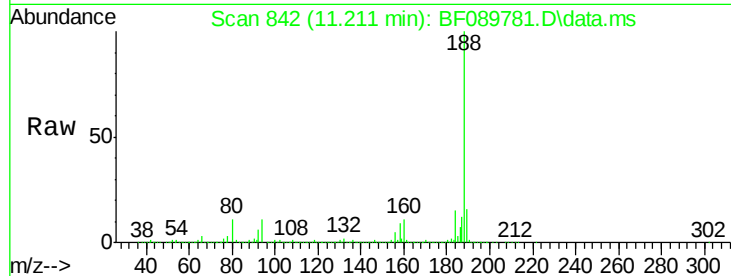
Tot Ion:188 Resp: 1706076

Ion Ratio Lower Upper

188 100

94 10.7 10.2 15.2

80 10.9 10.9 16.3



#66

4-Bromophenyl-phenylether

Concen: 2.95 ng

RT: 10.513 min Scan# 781

Delta R.T. -0.263 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

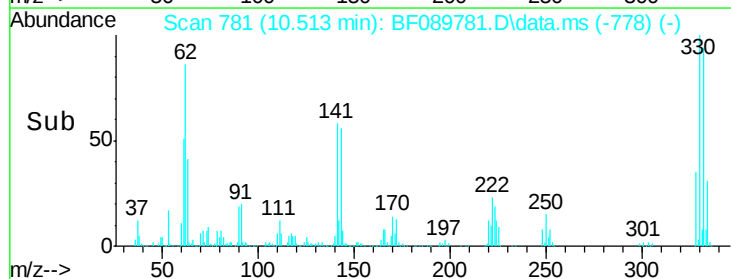
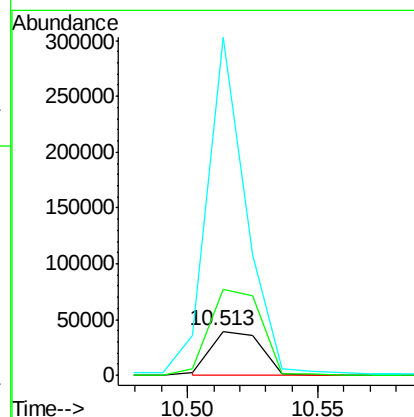
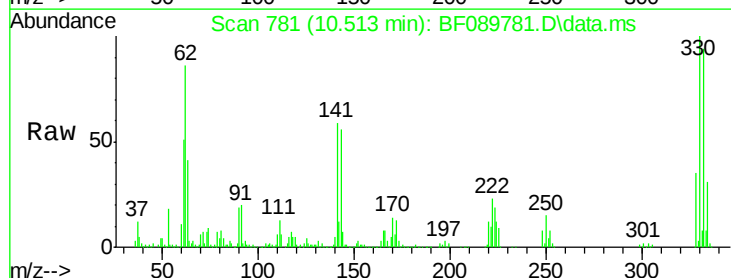
Tgt Ion:248 Resp: 52161

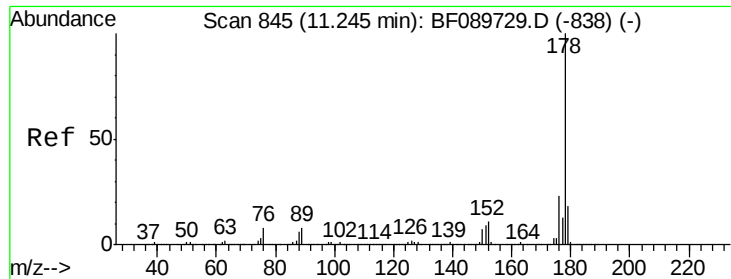
Ion Ratio Lower Upper

248 100

250 195.0 78.6 117.8#

141 764.5 31.4 47.2#





#70

Phenanthrene

Concen: 4.12 ng

RT: 11.234 min Scan# 84

Delta R.T. -0.010 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-6

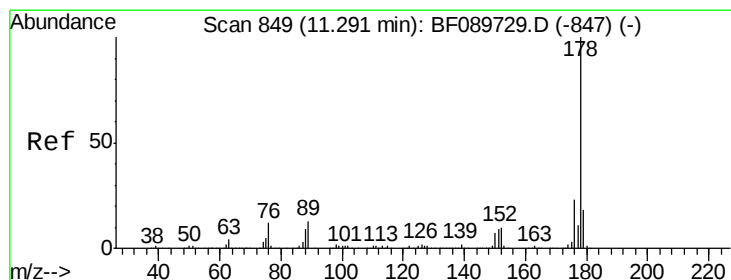
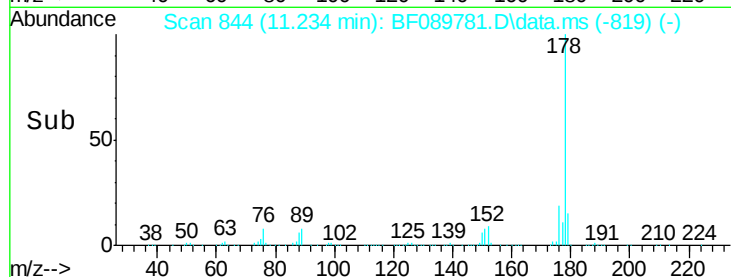
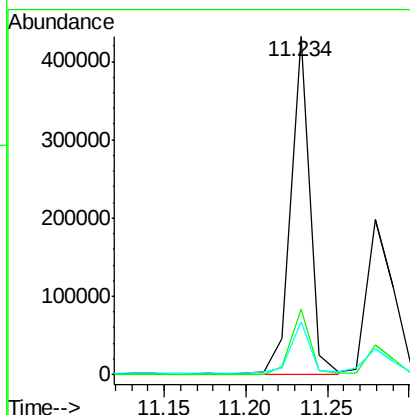
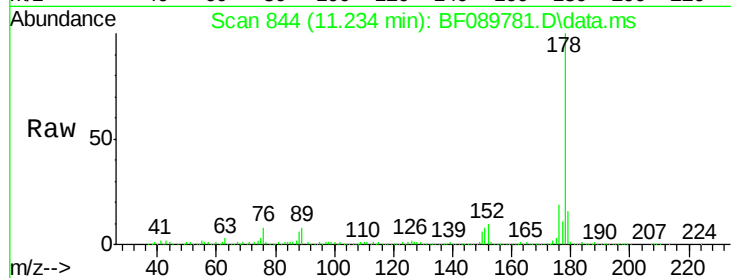
Tot Ion:178 Resp: 345369

Ion Ratio Lower Upper

178 100

176 19.5 16.4 24.6

179 15.7 12.5 18.7



#71

Anthracene

Concen: 2.48 ng

RT: 11.279 min Scan# 848

Delta R.T. -0.011 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

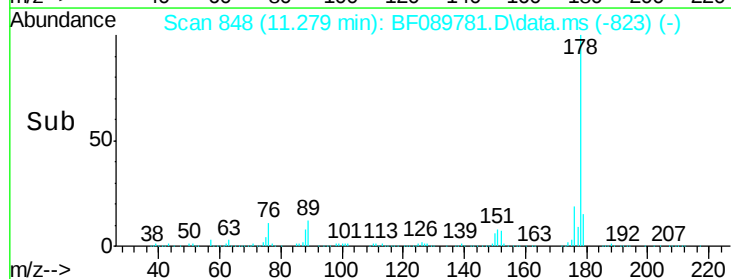
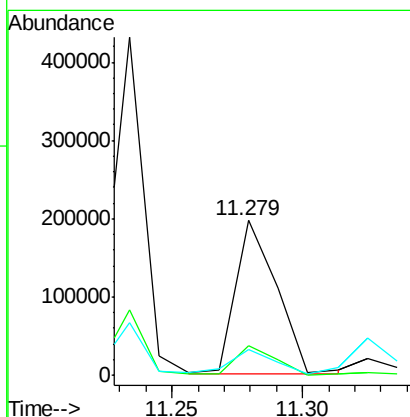
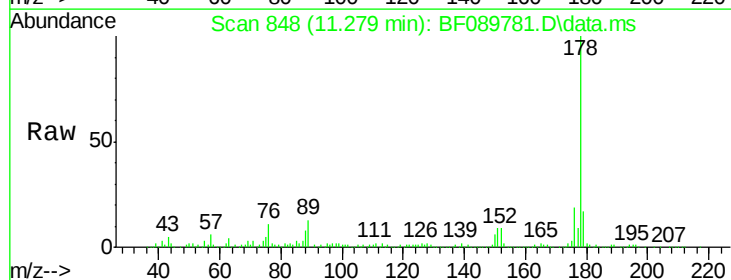
Tgt Ion:178 Resp: 217226

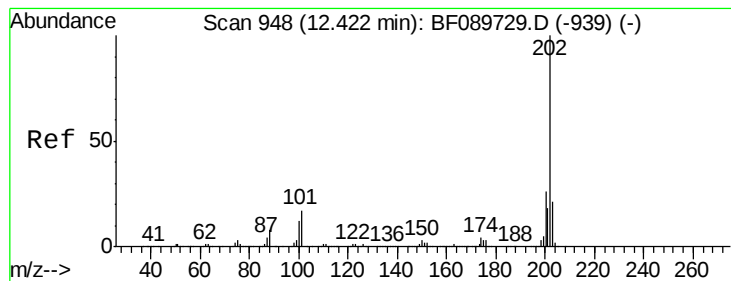
Ion Ratio Lower Upper

178 100

176 19.3 16.4 24.6

179 16.7 13.1 19.7





#74

Fluoranthene

Concen: 14.85 ng

RT: 12.422 min Scan# 94

Delta R.T. 0.000 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-6

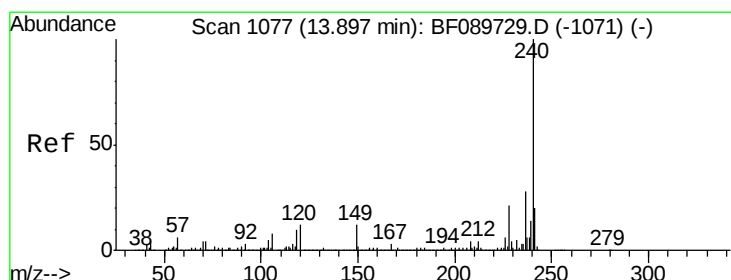
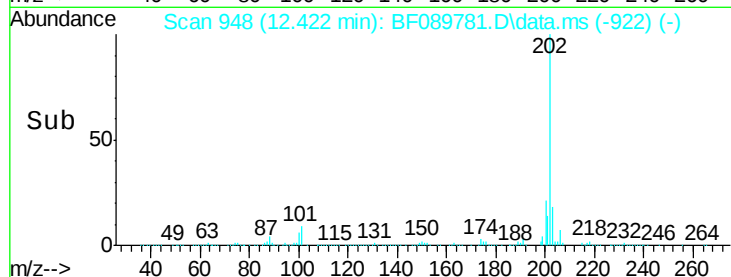
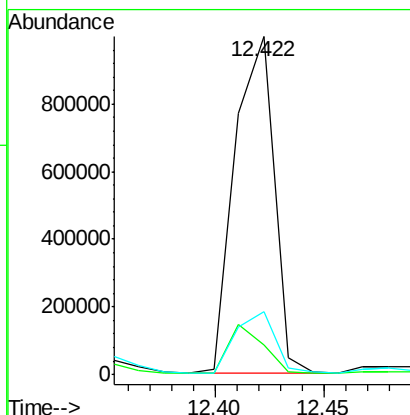
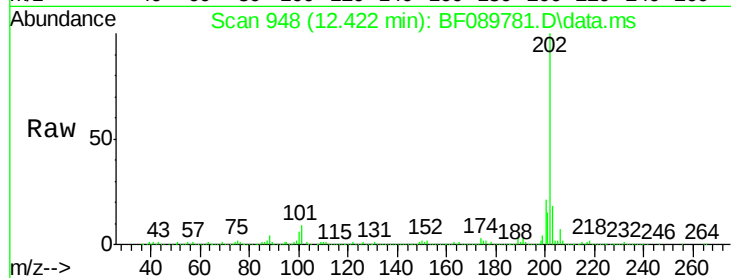
Tot Ion:202 Resp: 1250900

Ion Ratio Lower Upper

202 100

101 8.7 0.0 31.2

203 18.4 0.0 38.1



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.862 min Scan# 1074

Delta R.T. -0.034 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

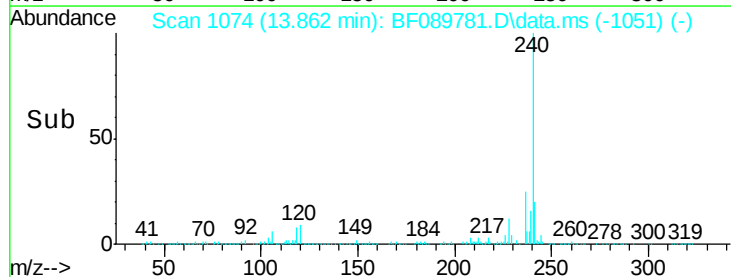
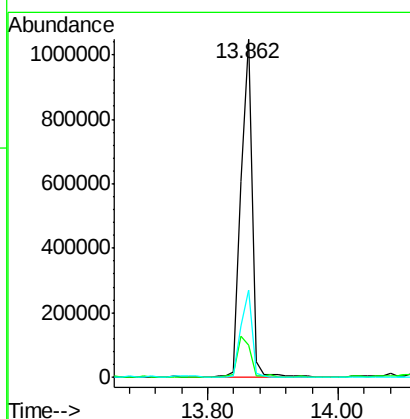
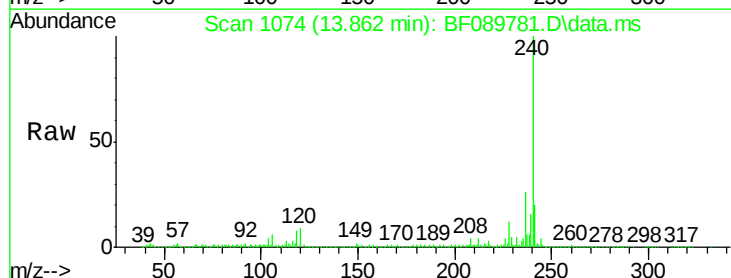
Tgt Ion:240 Resp: 1207456

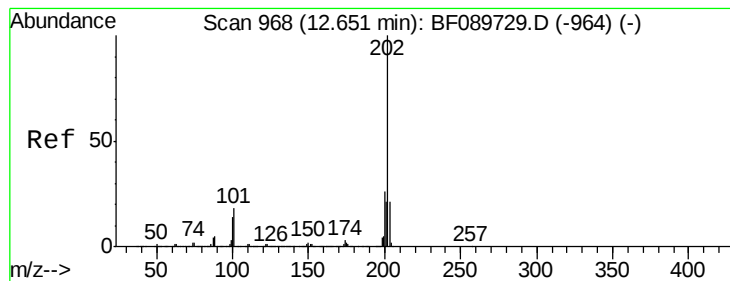
Ion Ratio Lower Upper

240 100

120 9.4 8.3 12.5

236 25.9 21.3 31.9





#77

Pvrene

Concen: 22.11 ng

RT: 12.639 min Scan# 96

Delta R.T. -0.011 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-6

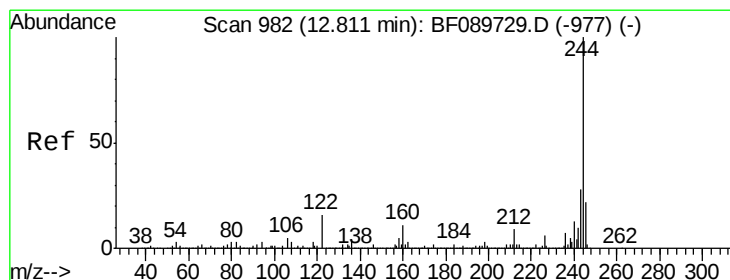
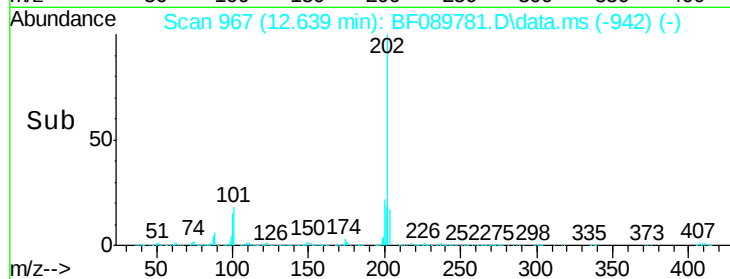
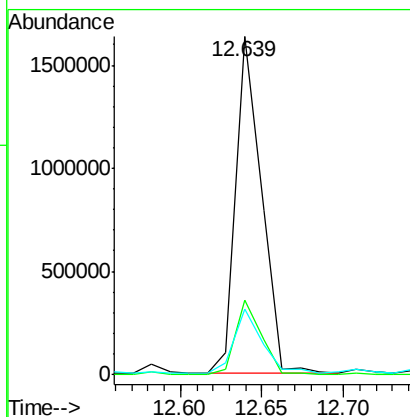
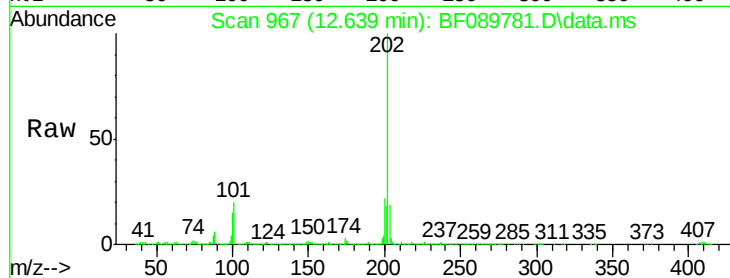
Tot Ion:202 Resp: 1747147

Ion Ratio Lower Upper

202 100

200 21.9 17.8 26.6

203 19.5 14.2 21.4



#78

Terphenyl-d14

Concen: 70.50 ng

RT: 12.799 min Scan# 981

Delta R.T. -0.011 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

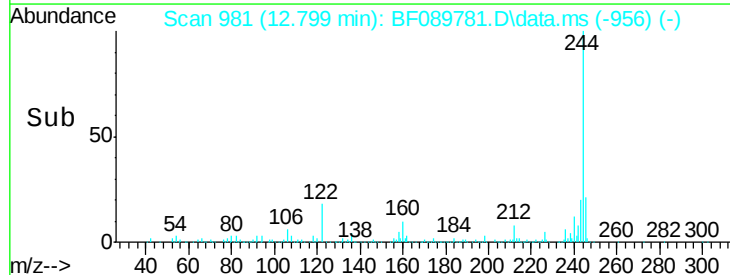
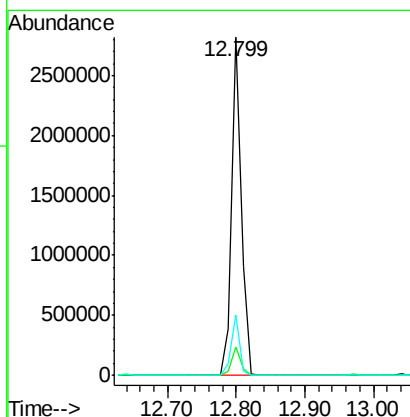
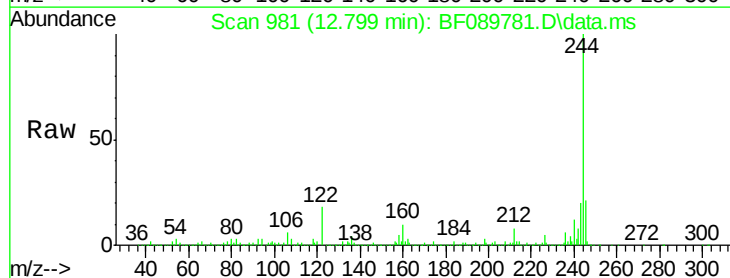
Tgt Ion:244 Resp: 2849399

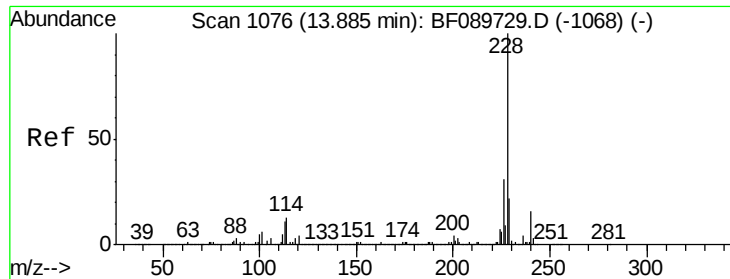
Ion Ratio Lower Upper

244 100

212 8.3 6.3 9.5

122 17.7 12.0 18.0

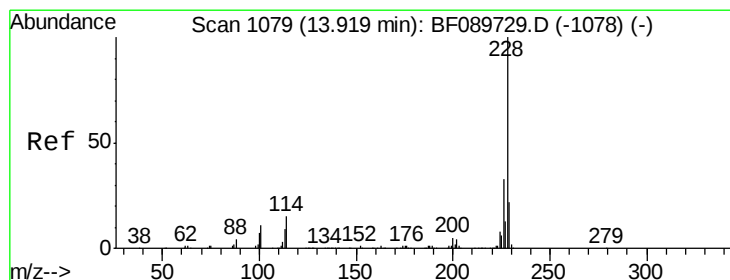
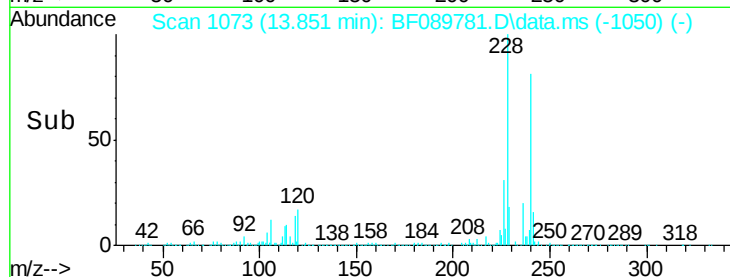
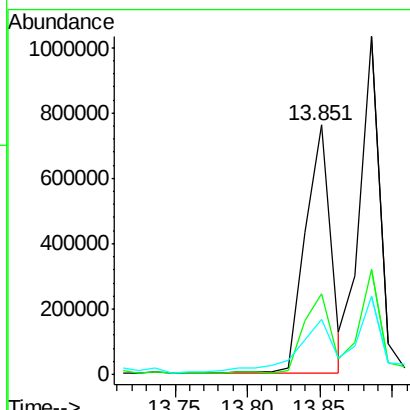
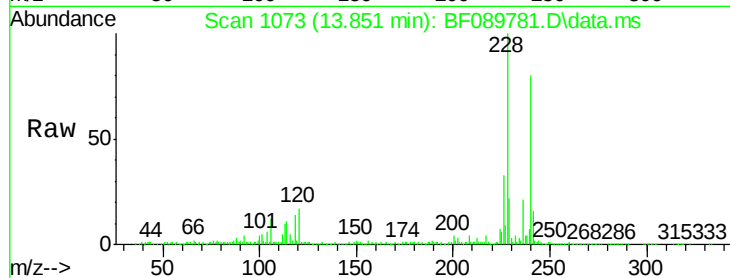




#80
Benzo(a)anthracene
Concen: 13.27 ng
RT: 13.851 min Scan# 1076
Delta R.T. -0.034 min
Lab File: BF089781.D
Acq: 17 Aug 2016 23:26

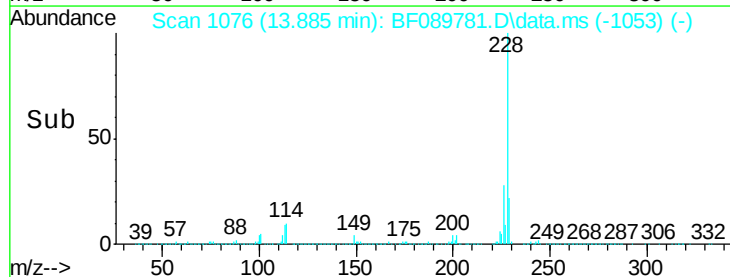
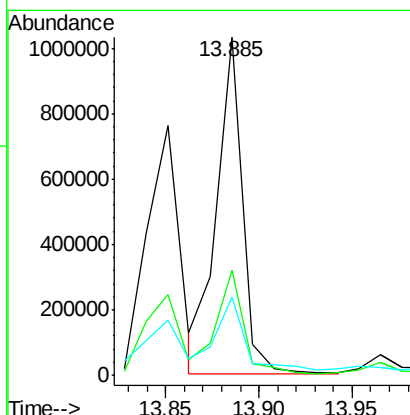
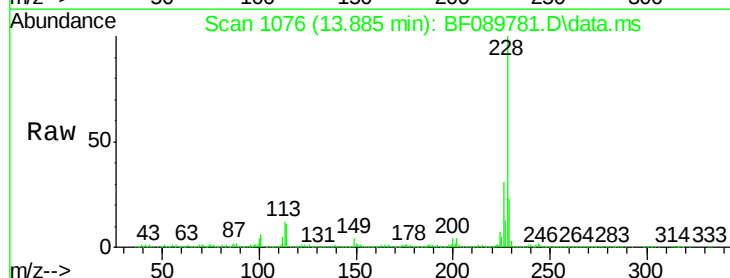
Instrument :
BNA_F
ClientSampleId :
670-UNDERCLIFF-6

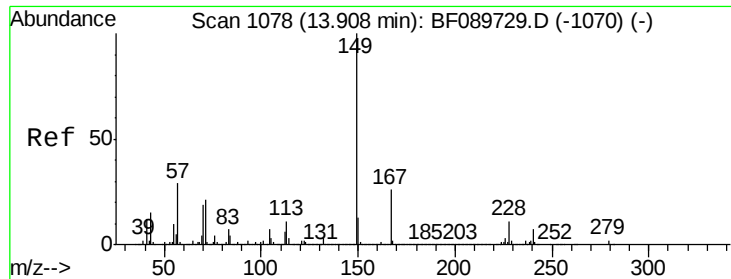
Tot Ion	Ratio	Lower	Upper
228	100		
226	32.6	23.2	34.8
229	22.1	16.2	24.4



#82
Chrysene
Concen: 15.85 ng
RT: 13.885 min Scan# 1076
Delta R.T. -0.034 min
Lab File: BF089781.D
Acq: 17 Aug 2016 23:26

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.4	38.0
229	23.1	16.5	24.7

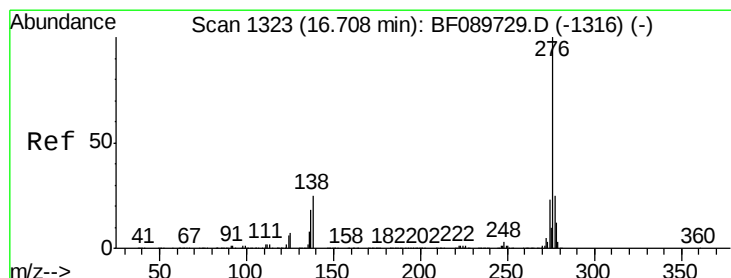
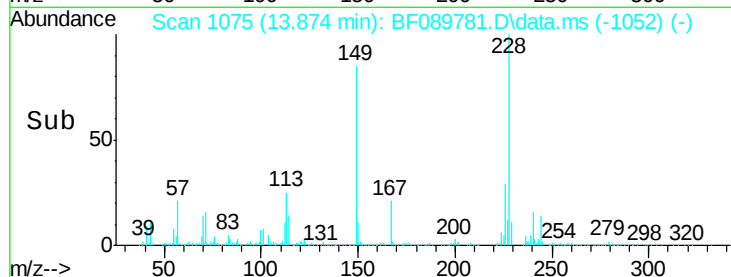
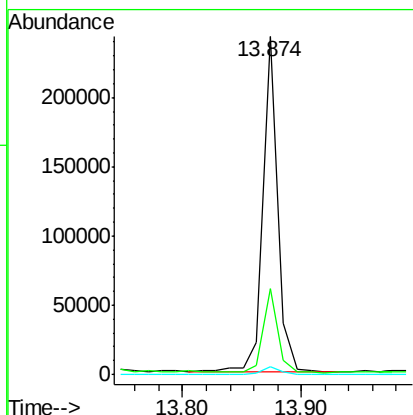
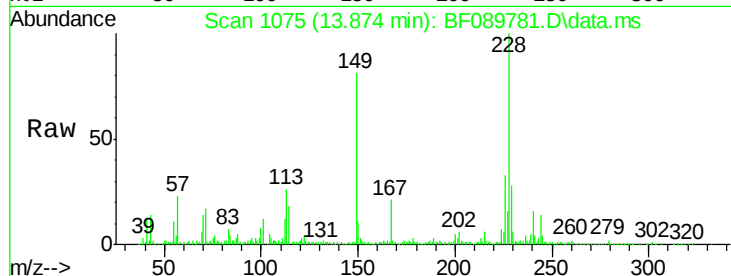




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 4.03 ng
 RT: 13.874 min Scan# 1078
 Delta R.T. -0.034 min
 Lab File: BF089781.D
 Acq: 17 Aug 2016 23:26

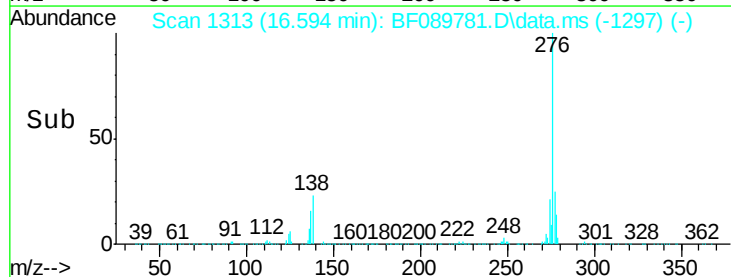
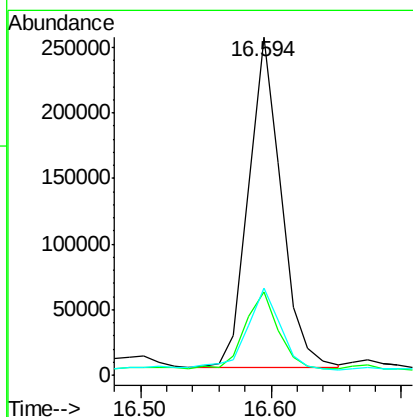
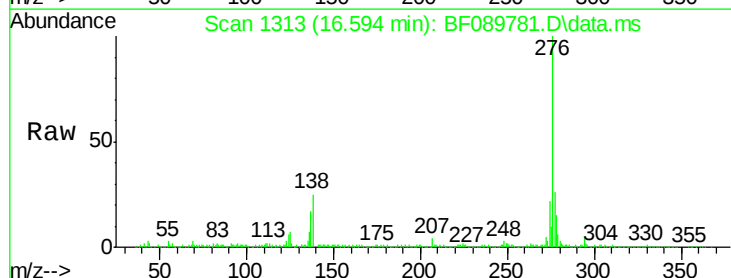
Instrument :
 BNA_F
 ClientSampleId :
 670-UNDERCLIFF-6

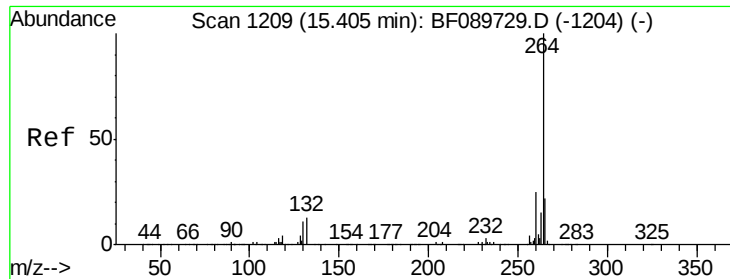
Tot Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.2	31.8
279	2.4	2.9	4.3



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.17 ng
 RT: 16.594 min Scan# 1313
 Delta R.T. -0.114 min
 Lab File: BF089781.D
 Acq: 17 Aug 2016 23:26

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.4	24.6	36.8
277	27.3	20.4	30.6



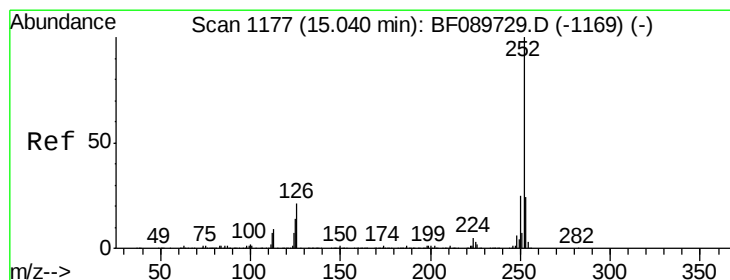
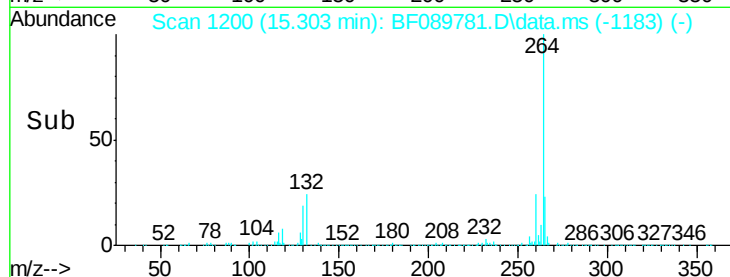
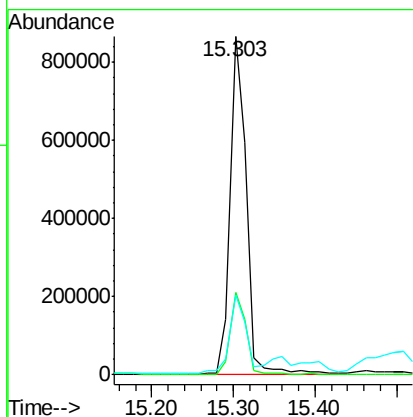
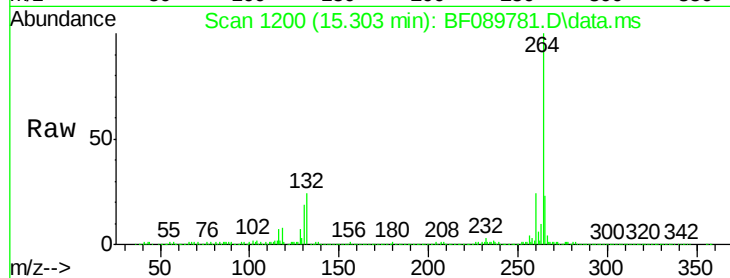


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.303 min Scan# 12
Delta R.T. -0.103 min
Lab File: BF089781.D
Acq: 17 Aug 2016 23:26

Instrument :
BNA_F
ClientSampleId :
670-UNDERCLIFF-6

Tot Ion:264 Resp: 1177551

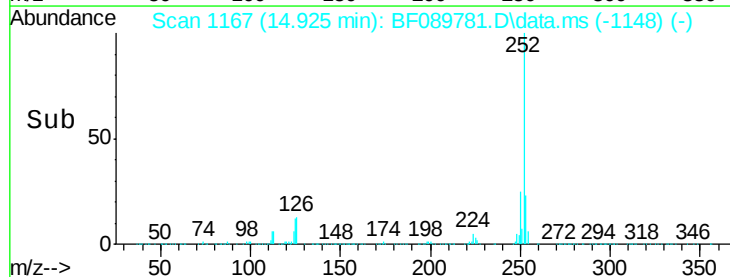
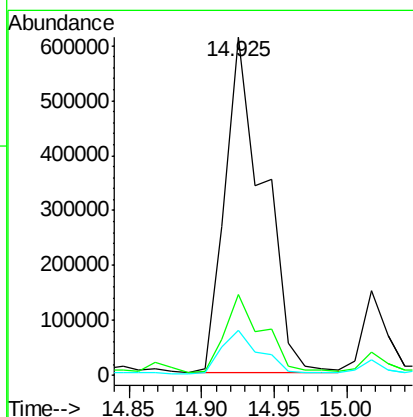
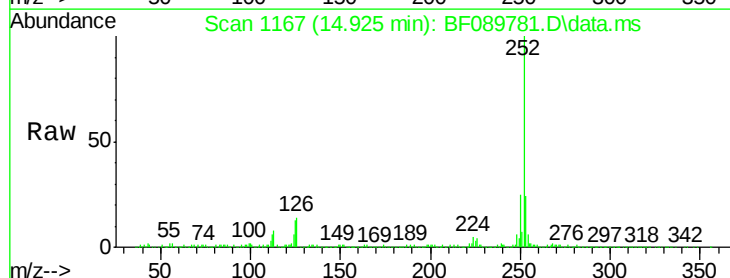
Ion	Ratio	Lower	Upper
264	100		
260	24.2	20.2	30.2
265	23.4	17.4	26.2

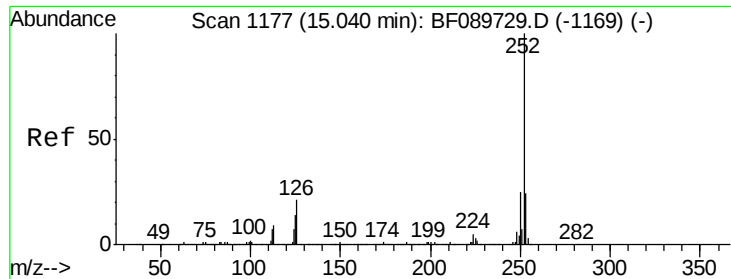


#87
Benzo(b)fluoranthene
Concen: 15.24 ng
RT: 14.925 min Scan# 1167
Delta R.T. -0.080 min
Lab File: BF089781.D
Acq: 17 Aug 2016 23:26

Tgt Ion:252 Resp: 1137073

Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.8
125	13.3	11.4	17.2





#88

Benzo(k)fluoranthene

Concen: 18.52 ng

RT: 14.925 min Scan# 111

Delta R.T. -0.114 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-6

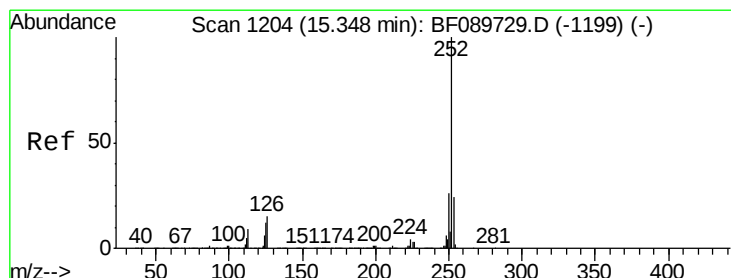
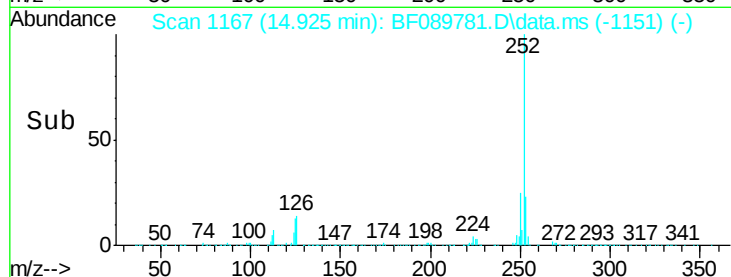
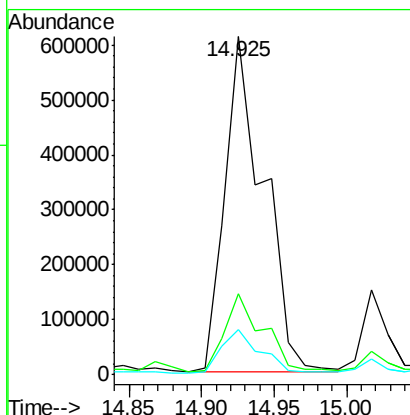
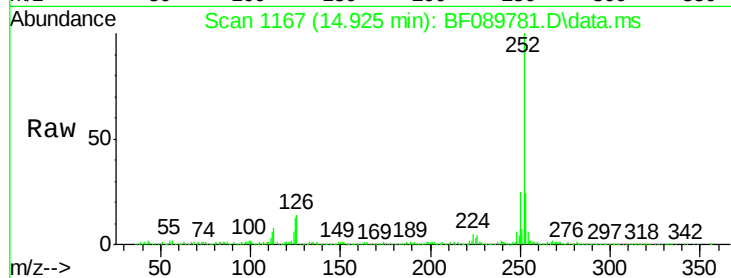
Tot Ion:252 Resp: 1137073

Ion Ratio Lower Upper

252 100

253 23.8 18.4 27.6

125 13.3 9.8 14.6



#89

Benzo(a)pyrene

Concen: 11.49 ng

RT: 15.245 min Scan# 1195

Delta R.T. -0.103 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

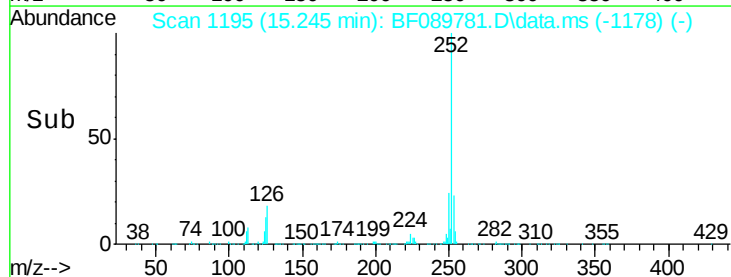
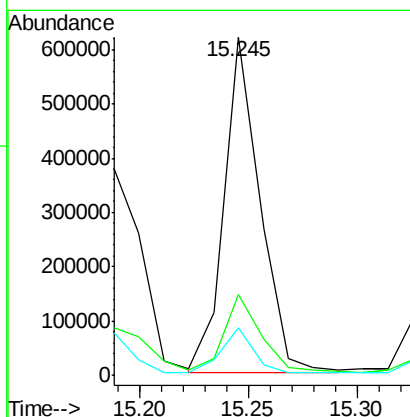
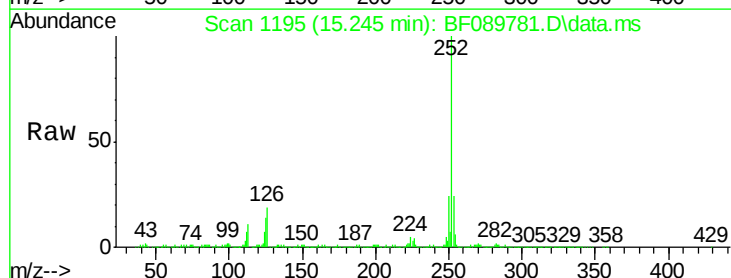
Tgt Ion:252 Resp: 707554

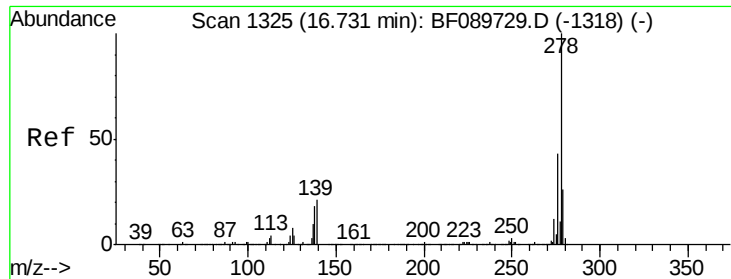
Ion Ratio Lower Upper

252 100

253 23.8 17.8 26.8

125 14.2 11.7 17.5





#90

Dibenzo(a,h)anthracene

Concen: 2.65 ng

RT: 16.606 min Scan# 1314

Delta R.T. -0.126 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Instrument :

BNA_F

ClientSampleId :

670-UNDERCLIFF-6

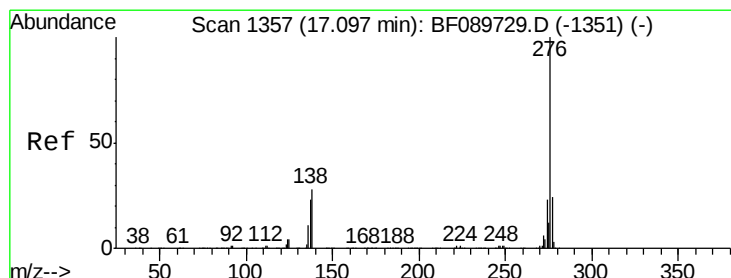
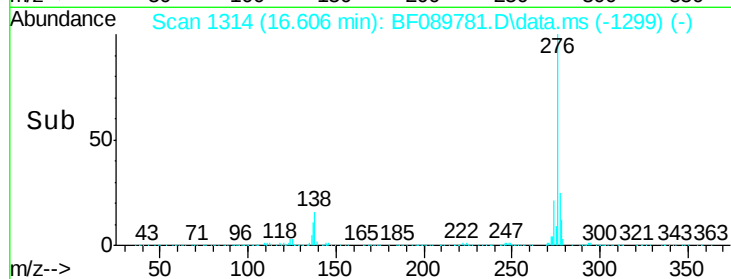
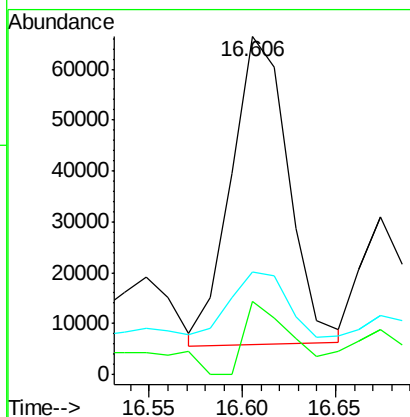
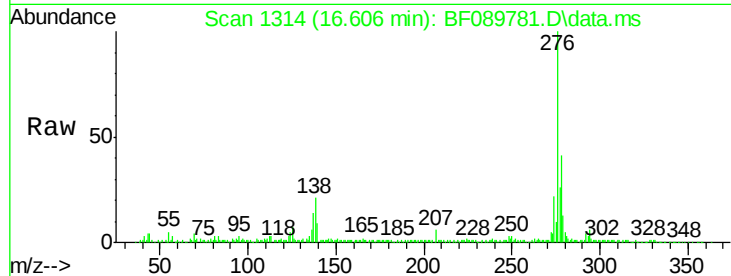
Tot Ion:278 Resp: 128450

Ion Ratio Lower Upper

278 100

139 21.6 14.9 22.3

279 30.4 19.2 28.8#



#91

Benzo(g,h,i)perylene

Concen: 9.59 ng

RT: 16.983 min Scan# 1347

Delta R.T. -0.114 min

Lab File: BF089781.D

Acq: 17 Aug 2016 23:26

Tgt Ion:276 Resp: 473211

Ion Ratio Lower Upper

276 100

277 24.9 19.2 28.8

138 23.6 22.1 33.1

